CLAIMS

Therefore, having thus described the invention, at least the following is claimed:

1	1.	A sequential signal selection system comprising:
2		a processor;
3		a memory device coupled to the processor;
4		at least one radio/transceiver coupled to the processor; and
5		an analog pre-selection network coupled to the at least one
6	radio/transcei	ver.
1	2.	The sequential signal selection system of claim 1, wherein the analog
2	pre-selection	network comprises:
3		a beam forming network;
4		an antenna array coupled to the beam forming network;
5		a switching network coupled to the beam forming network; and
6		an analog pre-select coupled to the switching network, and to the beam
7	formi	ng network.
1	3.	The sequential signal selection system of claim 1, wherein the analog
2	pre-selection	network comprises:
3		a first analog pre-selection sub-network;
4		a second analog pre-selection sub-network; and
5		a third analog pre-selection sub-network coupled to the first analog pre-
6	select	ion sub-network, and to the second analog pre-selection sub-network.
1	4.	The sequential signal selection system of claim 3, wherein the third
2	analog pre-se	election sub-network comprises:
3		a third switching network coupled to the at least one radio/transceiver;
4	and	
5		a third analog pre-select coupled to the third switching network.

1

5

2

5

7

1

3

5

1 2

5.	The sequential signal selection system of claim 4, wherein the second
analog pre-se	lection sub-network comprises:
	a second switching network coupled to the third switching network;
	a second beamforming network coupled to the second switching
netwo	rk, the second beam forming network coupled to a second antenna array;
and	
	a second analog pre-select coupled to the second beam forming network,
to the second	switching network, and to the processor.
6.	The sequential signal selection system of claim 5, wherein the first
analog pre-se	lection sub-network comprises:
	a first switching network coupled to the third switching network;
	a first beam forming network coupled to the first switching network, the
first b	eam forming network coupled to a first antenna array; and
	a first analog pre-select coupled to the first beam forming network, to
the fir	st switching network, and to the processor.
7.	The sequential signal selection system of claim 4, wherein the second
analog pre-se	lection sub-network comprises:
	a second switching network coupled to the third switching network, the
secon	d switching network coupled to a second antenna array; and
	a second analog pre-select coupled to the second antenna array, and to

 The sequential signal selection system of claim 7, wherein the second analog pre-select is coupled to the processor.

the second switching network.

1	9.	The sequential signal selection system of claim 8, wherein the first
2	analog pre-sel	ection sub-network comprises:
3		a first switching network coupled to the third switching network; the
4	first switching	network coupled to a first antenna array; and
5		a first analog pre-select coupled to the first antenna array, to the first
6	switch	ing network, and to the processor.
1	10.	The sequential signal selection system of claim 2, wherein the analog
2	pre-select con	nprises:
3		a band pass filter, the band pass filter coupled to the beam forming
4	network;	
5		an amplifier coupled to the band pass filter;
6		a detector coupled to the amplifier; and
7		a sorting device coupled to the detector, to the processor, and to the
8	switch	ning network.
1	11.	The sequential signal selection system of claim 2, wherein the analog
2	pre-select cor	mprises:
3		a band pass filter coupled to the beam forming network;
4		an amplifier coupled to the band pass filter;
5		an analog correlation receiver coupled to the amplifier; and
6		a sorting device coupled to the analog correlation receiver, to the
7	proces	ssor, and to the switching network.
1	12.	The sequential signal selection system of claim 2, wherein the analog
2	pre-select cor	mprises:
3		a band pass filter, the band pass filter coupled to the beam forming
4	network;	
5		an amplifier coupled to the band pass filter;
6		a detector coupled to the amplifier;
7		a modulated frequency sorter coupled to the detector; and
8		a sorting device coupled to the modulated frequency sorter, to the
0	ewite	hing network, and to the processor

1	13.	A sequential signal selection method, comprising the steps of:
2		pre-selecting at least two signals from a set of signals based on a pre-
3	select	ion method; and
4		selecting at least one signal from the at least two signals based on a
5	select	ion method.
1	14.	The sequential signal selection method of claim 13, wherein the pre-
2	selection met	hod is a receive signal strength indicator method.
1	15.	The sequential signal selection method of claim 13, wherein the pre-
2	selection method comprises the steps of:	
3		filtering the set of signals;
4		amplifying the set of signals;
5		rectifying the set of signals; and
6		sorting the set of signals to obtain the at least two signals.
1	16.	The sequential signal selection method of claim 13, wherein the pre-
2	selection me	thod comprises the steps of:
3		filtering the set of signals;
4		amplifying the set of signals;
5		comparing a code of each signal in the set of signals to a pre-determined
6	code	and
7		sorting the set of signals to obtain the at least two signals.
		and the second of the second o
1	17.	The sequential signal selection method of claim 13, wherein the pre-
2	selection me	thod comprises the steps of:
3		filtering the set of signals;
4		amplifying the set of signals;
5		comparing frequency of envelope of each signal in the set of signals to a
6	pre-d	determined frequency; and
7		sorting the set of signals to obtain the at least two signals.

2

1

2

3

4

5

1

3

5

18. The sequential signal selection method of claim 13, wherein the set of	of
signals comprises a set of radio frequency signals, a set of acoustic signals, a set of	of
optical signals, and a set of infrared signals.	

19. The sequential signal selection method of claim 13, wherein the selection method comprises the steps of:

comparing the at least two signals to a threshold; and sorting the at least two signals to obtain the at least one signal, wherein the at least two signals meet the threshold.

20. A sequential signal selection system, comprising:

means for pre-selecting at least two signals from a set of signals based on a pre-selection method; and

means for selecting at least one signal from the at least two signals based on a selection method.